Contents

NUMBER 1 March

Articles

GIORA HON, BERNARD R. GOLDSTEIN	1	From proportion to balance: the background to symmetry in science
LAMBERT WILLIAMS	23	Cardano and the gambler's habitus
DOREEN L. FRASER	43	The third law in Newton's *Waste book* (or, the road less taken to the second law)
STEFFEN DUCHEYNE	61	Newton's notion and practice of unification
GIOVANNI B. GRANDI	79	Thomas Reid's geometry of visibles and the parallel postulate
CHRISTOPHER PHILLIPS	105	Augustus De Morgan and the propagation of moral mathematics
KARYN L. FREEDMAN	135	Naturalized epistemology, or what the Strong Programme can't explain
HAROLD I. BROWN	149	Incommensurability reconsidered

Discussions

CHRISTIÁN C. CARMAN	171	The electrons of the dinosaurs and the center of the Earth: comments on D. D. Turner's 'The past vs. the tiny: historical science and the abductive arguments for realism'
DEREK D. TURNER	175	Misleading observable analogues in paleontology

Essay reviews

MARY TERRALL	185	An embarrassment of riches
ALEXANDER PASEAU	191	What the foundationalist filter kept out
MARK D. SPREVAK	203	The Chinese carnival
MIRIAM SOLOMON, ALAN RICHARDSON	211	A critical context for Longino's critical contextual empiricism

NUMBER 2 June

Articles

PAOLO PALMIERI	223	'Spuntar lo scoglio più duro': did Galileo ever think the most beautiful thought experiment in the history of science?
SELMAN HALABI	241	A useful anachronism: John Locke, the corpuscular philosophy, and inference to the best explanation
URSULA KLEIN	261	Shifting ontologies, changing classifications: plant materials from 1700 to 1830
SIMON COOK	331	Minds, machines and economic agents: Cambridge receptions of Boole and Babbage
SUSAN G. STERRETT	351	Pictures of sounds: Wittgenstein on gramophone records and the logic of depiction
ERIC OBERHEIM	363	On the historical origins of the contemporary notion of incommensurability: Paul Feyerabend's assault on conceptual conservativism

Discussions

CHARLES TWARDY, STEVE GARDNER, DAVID L. DOWE	391	Empirical data sets are algorithmically compressible: reply to McAllister?
JAMES W. MCALLISTER	403	Algorithmic compression of empirical data: reply to Twardy, Gardner, and Dowe

Essay reviews

EMILY R. GROSHOLZ	411	Berzelian formulas as generative paper tools
STEPHEN P. TURNER	419	Normative all the way down

NUMBER 3 September

Articles

MIGUEL A. GRANADA, DARIO TESSICINI	431	Copernicus and Fracastoro: the dedicatory letters to Pope Paul III, the history of astronomy, and the quest for patronage
HASOK CHANG, SABINA LEONELLI	477	Infrared metaphysics: the elusive ontology of radiation. Part 1
JUHA SAATSI	509	Reconsidering the Fresnel–Maxwell theory shift: how the realist can have her cake and EAT it too
JUTTA SCHICKORE	539	'Through thousands of errors we reach the truth'—but how? On the epistemic roles of error in scientific practice

PIERRE CRUSE 557 Ramsey sentences, structural realism and trivial realization

Essay reviews

BRUCE T. MORAN 577 Knowing how and knowing that: artisans, bodies, and natural knowledge in the Scientific Revolution

KEITH TRIBE 586 Oeconomic history

KATHLEEN WELLMAN 598 A rich life in science: the case of Pierre Louis Moreau de Maupertuis

RALPH O'CONNOR 607 The poetics of earth science: 'Romanticism' and the two cultures

DAVID KNIGHT 618 Snippets of science

NUMBER 4 December

Articles

BERNADETTE BENSAUDE-VINCENT 627 Chemistry in the French tradition of philosophy of science: Duhem, Meyerson, Metzger and Bachelard

ALLARD TAMMINGA 649 Introspection and change in Carnap's logical behaviourism

CHRISTINA MCLEISH 667 Scientific realism bit by bit: Part I. Kitcher on reference

HASOK CHANG, SABINA LEONELLI 686 Infrared metaphysics: radiation and theory-choice. Part 2

STEPHEN KEMP 706 Saving the Strong Programme? A critique of David Bloor's recent work

Special Section
The social dimension of scientific knowledge: responses to Mirowski

THOMAS UEBEL 723 The social dimension of scientific knowledge and its distinct echo in philosophy of science: six responses to Mirowski

D. WADE HANDS 726 You want the social? You can't handle the social! Mirowski on the secret history of scientific philosophy

S. M. AMADAE 734 Arrow's impossibility theorem and the national security state

ALAN RICHARDSON 744 Reichenbach's disease and Mirowski's theory of knowledge? Or, will to power as philosophy of science

THOMAS UEBEL 754 Political philosophy of science in logical empiricism: the left Vienna Circle

Helen E. Longino	774	Whither philosophy of science?
K. Brad Wray	779	Philosophy of science after Mirowski's history of the philosophy of science
Philip Mirowski	790	Hoedown at the OK Corral: more reflections on the 'social' in current philosophy of science
Discussions		
Eric Barnes	801	On Mendeleev's predictions: comment on Scerri and Worrall
Eric R. Scerri	813	Response to Barnes's critique of Scerri and Worrall
John Worrall	817	Prediction and the 'periodic law': a rejoinder to Barnes
Essay reviews		
Steven Yearley	827	The wrong end of nature
Joseph Rouse	835	Epistemological derangement
	I	2005 Contents and Author Index